


New York

April 4, 2007

This is Bela Kleiner, the patent applicant for patent application # 10/814 916 .
Replying to examiner's letter.

Here is my amended form of the abstract:

Signature:.....

Abstract

In this invention new chemical reactions, new chemical processes are established, and these chemical reactions, chemical processes can be used with the designed system to produce nitrogen dioxide, nitric oxide and calcium ascorbate or calcium isoascorbate.

The reaction vessel contains the aqueous ascorbic acid solution or aqueous isoascorbic acid solution. The temperature in the reaction vessel at the start of the reaction is at temp. 55°C . Into this solution is injected calcium nitrite dissolved in water. The gases generated by the chemical reactions are collected in the gas vessel.

Here two sets of chemical reactions take place ; one on the surface of the solution that produces the bulk of the gas mixture. In the liquid phase, the reactions go slow; and it gives nitric acid, calcium ascorbate and nitric oxide. Instead of calcium ascorbate one can use isoascorbate, in that case the chemical reactions will go somewhat slower.

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